

5            **INTEGRATED DEVICE WITH SURFACE-ATTACHED MOLECULAR**  
              **MOIETIES AND RELATED MACHINE-READABLE INFORMATION**

**ABSTRACT OF THE DISCLOSURE**

10            The invention provides a device comprising a substrate having a surface capable  
of attaching a plurality of molecular moieties, or a surface having a plurality of molecular  
moieties attached thereto. The substrate also contains machine-readable information  
relating to the molecular moieties. The information may be contained in a discrete region  
of the substrate that is non-coplanar with respect to the substrate surface having the  
15            plurality of molecular moieties attached thereto. The information may, for example,  
relate to the identity of the attached molecular moieties or to instructions for attaching the  
molecular moieties. Also provided are methods and machines for forming and using the  
devices.

20

25